

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/615,081	07/12/2000	Yutaka Suenaga	XA-9335 2763		
7590 02/20/2004			EXAMINER		
NELSON H. SHAPIRO			ROBINSON, MARK A		
MILES & STO	CKBRIDGE P.C. LE DRIVE	ART UNIT	PAPER NUMBER		
SUITE 500			2872		
MCLEAN, VA	22102	DATE MAILED: 02/20/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	· ·			
Office Action Summary		09/615,0	81	SUENAGA ET AL.				
		Examine	r	Art Unit				
		Mark A. F		2872				
Period fo	Th MAILING DATE of this communic or Reply	ation appears on the	e cover sheet with th	e correspondence addr	ess			
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the provision of period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply within the se	ATION. 37 CFR 1.136(a). In no evinication. days, a reply within the startory period will apply and will by statute, cause the app	rent, however, may a reply be tutory minimum of thirty (30) vill expire SIX (6) MONTHS fo blication to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this comi NED (35 U.S.C. § 133).	nunication.			
1)⊠	Responsive to communication(s) filed	on 10 November 2	<u>:003</u> .					
2a)⊠	This action is FINAL . 2b)∐ This action is n	on-final					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 18-40,42,44-49 and 51-99 is.	/are pending in the	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	☑ Claim(s) <u>18-40,42,44-49 and 51-84</u> is/are allowed.							
6)⊠	⊠ Claim(s) <u>85-99</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[]	Claim(s) are subject to restricti	on and/or election i	equirement.					
Applicat	ion Papers							
,	The specification is objected to by the							
10)	The drawing(s) filed on is/are:							
	Applicant may not request that any object							
🗖	Replacement drawing sheet(s) including t							
· —	The oath or declaration is objected to	by the Examiner. N	ote the attached On	nce Action of form PTC	-152.			
-	under 35 U.S.C. §§ 119 and 120							
* 13)	Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation has been the attached detailed Office action has been a specific reference was included for CFR 1.78. Acknowledgment is made of a claim for the foreign language. Acknowledgment is made of a claim for the foreign language.	locuments have been locuments have been the priority document all Bureau (PCT Runger all list of the center domestic priority unin the first sentence guage provisional and domestic priority unin the street priority unin t	en received. en received in Application lents have been received 17.2(a)). lified copies not received ander 35 U.S.C. § 11 e of the specification pplication has been under 35 U.S.C. §§ 1	cation No eived in this National Seived. 19(e) (to a provisional an or in an Application Deceived. 120 and/or 121 since a	application) ata Sheet. specific			
Attachme			. .	(DTO 440) B				
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT rmation Disclosure Statement(s) (PTO-1449) Pa			nary (PTO-413) Paper No(s). nal Patent Application (PTO-1				

Art Unit: 2872

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 85-97 are rejected under 35 U.S.C. 102(b) as being anticipated by Furter 5742436.

The limitations of claims 85-97 are met by Furter as discussed previously, with Furter teaching that the folding mirror(5) may be eliminated (see col. 2 lines 23-28 and col. 4 lines 35-40), thus satisfying the new limitation that the mirrors do not include folding mirrors. Note also that the exit pupil is not obscured (see fig. 1), each curved element has a straight axis of symmetry, there are two mirrors upstream of the intermediate image (note mirror surfaces 15,19), and that the system is object side telecentric (see the abstract).

Application/Control Number: 09/615,081 Page 3

Art Unit: 2872

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 98 and 99 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furter in view of Williamson 5956192.

Although not explicitly disclosed by Furter, both slit-like and annular shapes are common in reduction projection systems and examples are disclosed in Williamson (see the discussion concerning fig. 2). Thus, both of these shapes would have been obvious to the ordinarily skilled artisan at the time of invention depending upon the type of exposure being employed.

Allowable Subject Matter

- 5. Claims 18-40,42,44-49,51-84 are allowed.
- 6. The statement of reasons for the indication of allowable subject matter was included in a previous office action.

Application/Control Number: 09/615,081 Page 4

Art Unit: 2872

Response to Arguments

7. Applicant's arguments filed 11/10/03 have been fully considered but they are not persuasive. As noted above, Furter meets the newly added limitation of claim 85.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Robinson whose telephone number is 571-272-2319.

Application/Control Number: 09/615,081 Page 5

Art Unit: 2872

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn, can be reached at 571-272-2312.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MR

1/28/04

MARK A. ROBINSON PRIMARY EXAMINER